

	1	2	3		4			5			6		
	METRIC IF IN DOUBT ASK						ISS	DATE	DRAWN	ECR No.	СНК	APP	
							3A	17/05/10	K.T	10593/9	M.B	M.B	
Α	SRH220DR PERFROMANCE A2 ( 0	- 10V) OUTPUT OPTION	FIG 5 OUTPUT LAW FOR 4 DIFFERENT ANGLES								A		
	ELECTRICAL DATA	Examples of Output law for 0-10V Ouput											
В	MEASUREMENT RANGE SUPPLY VOLTAGE SUPPLY CURRENT SUPPLY REVERSE POLARITY PROTECTION OUTPUT SHORT CIRCUIT PROTECTION TO GND OUTPUT SHORT CIRCUIT PROTECTION TO SUPPLY POWER ON SETTLEMENT RESOLUTION NON-LINEARITY TEMPERATURE COEFFICIENT OVER VOLTAGE PROTECTION	20° TO 360° IN 1° INCREMENTS 13.5 -30Vdc UNREGULATED $\leq$ 30mA (15mA PER CHANNEL). YES YES YES $\leq$ 10ms 12 BIT (0.025% OF MEASUREMENT RA $\leq$ 0.4% OF RANGE $<$ ±125PPM/°C UP TO 40V (40 TO +60°C)	NGE)		11 10 9 8 (A) 7 7 7 9 6 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9								В
	DIRECTION	FACTORY PROGRAMMED TO INCREAS	SE OR DECREASE WITH CW SHAF	T ROTATION	1		/						_
С	A2 OU TPUT  VOLTAGE OUTPUT RANGE LOAD RESISTANCE OUTPUT NOISE INPUT / OUTPUT DELAY  MECHANICAL DATA	E OUTPUT RANGE  NOMINALLY 0.2Vdc TO 9.8Vdc (±0.2V)  ESISTANCE  10KΩ MINIMUM (RESISTIVE TO GND)  NOISE  <1 mVRrms  0UTPUT DELAY  3.5 ms			0 -210 -180 -150 -120 -90 -60 -30 0 30 60 90 120 150 180 210 Angle of Rotation, θ (*)  - · · 0-10V Output 360° — 0-10V Output 320° — - · 0-10V Output 180° — 0-10V Output 90°  FIG 6 MAXIMUM TEMPERATURE DERATING								С
D	MECHANICAL ANGLE TORQUE WEIGHT MOUNTING PHASING  ENVIRONMENTAL  OPERATIONAL TEMPERATURE RANGE (FIG 6)	360° CONTINUOUS 120gm.cm. 51gms 2 x M4 SCREWS SEE FIG 1.  -40 TO 115°C WITH VSUPPLY = 13.5VD DERATE UPPER TEMPERATURE LIMIT E.G40 TO 100°C WITH VSUPPLY = 30	BY 0.91°C FOR EACH 1VDC INCRE	EASE IN VSUPPLY	120 118 116 116 114 112 100 108	ax Operating Tempera	ture D	erating A	2 (0-10V)	Output Op	etion		D
	SEALING	NOTE: EXCESSIVE TEMPERATURE WILL CAUSE THE INTERNAL VOLTAGE REGULATOR TO SHUT DOWN TO PROTECT THE CIRCUIT FROM DAMAGE THROUGH OVERHEATING.  AMP CONNECTOR (WHEN FULLY MATED) – IP68 DEUTSCH CONNECTOR (WHEN FULLY MATED) – 1P67											
Е	TESTED TO:  STORAGE TEMPERATURE VIBRATION SHOCK LIFE ELECTROMAGNETIC INTERFERENCE EMC	DRAGE TEMPERATURE  -55 TO 140°C  BS EN 60068-2-64; 1995 SEC 8.4 (31.4 gn ms) 20 TO 2000HZ RANDOM  DCK  3M DROP ONTO CONCRETE AND 2500g HIGHSHOCK  20 MILLION OPERATIONS, (10 MILLION CYCLES OF +/- 75°).  ECTROMAGNETIC INTERFERENCE  BS EN 61000-4-3(1999) TO 100V/M, 80MHZ TO 1GHZ AND 1.4GHZ TO 2.7GHZ				14 15 16 17 18 19		21 22 23 Dly Voltag		26 27 2	28 29 30	31	E
	SCALE  IF CONTROL DIMENSIONS (Kc)  ARE SPECIFIED THEY ARE TO BE  SUBJECT TO 100% INSPECTION OR  STATISTICAL PROCESS CONTROL.  UNLESS STATED	D No MATERIAL FIRST USED ON	SEE ABOVE	TOLERANCES: IN-LINE WITH PENNY & GILLE SURFACE TEXTURE VALUES IN MICROMETI TO BS1134:P12. ALL MACHINED SURFACE ALL SCREW THREADS TO BS3643 PT.2: EXTERNAL CLASS: 6g INTERNAL CLASS:		DUAL REDUNDANT		NT, SEALED ENSOR WITH PART NUMI		NNY + GILES		A3	
	THIRD ANGLE PROJECTION TO BS 8888		FINISH CLEAN		0.05 - 0.15mm FILLET RADS 0.1 - 0.3mm					r: RH220	DR	SHT 3 OF 3 SHTS	
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